

NWS Form E-5

U.S. DEPARTMENT OF COMMERCE

HYDROLOGIC SERVICE AREA (HSA)

(04-2006)

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

San Juan, Puerto Rico

(PRES. BY NWS Instruction 10-924)

NATIONAL WEATHER SERVICE

REPORT FOR:

MAY 2017

TO: Hydrologic Information Center, W/OS31
 NOAA's National Weather Service
 1325 East West Highway
 Silver Spring, MD 20910-3283

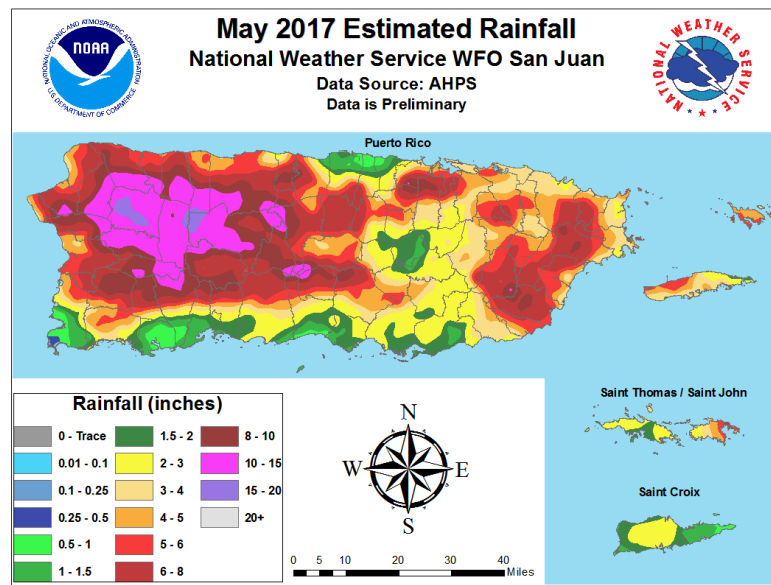
SIGNATURE
 Odalys Martínez-Sánchez / FIC

DATE
 06/15/2017

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

☐ An X inside this box indicates that no flooding occurred within this hydrologic

Summary: The month featured a combination of wet and dry periods. The first half of the month featured an unstable weather pattern as frequent trofiness aloft along with abundant low to mid-level moisture enhanced the shower and thunderstorm activity the majority of the days. Most of the second half of the month featured a drier weather pattern as high pressure aloft and pulses of Saharan dust kept the coverage and intensity of the rainfall activity at a minimum. The last few days of the month (29th to 31st) featured a return to a wetter pattern as a tropical wave and a mid to upper-level trough produced more widespread coverage of the shower and thunderstorm activity. Based on the Cooperative Observer Network Data (COOP), an average rainfall total of 4.62 inches was measured across Puerto Rico, which is 2.36 inches below normal (Table 1). At the primary climatological data sites, a rainfall total of 2.05 and 1.77 inches was observed at Henry E. Rohlsen Airport in Saint Croix (TISX) and Cyril E King Airport in St Thomas (TIST) which is 2.10 and 1.29 inches below the normal rainfall, respectively.



May 2017 rainfall totals based on AHPS data.

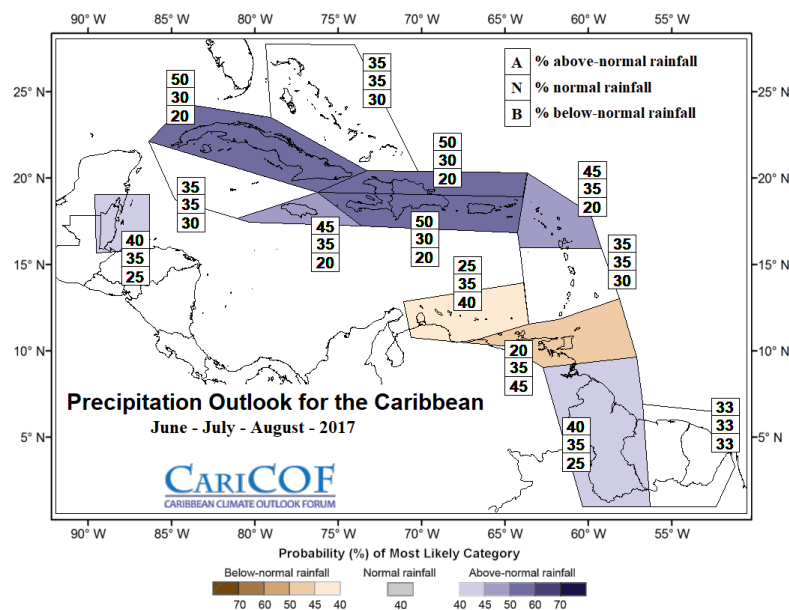
River and Drought Conditions: The 28-day average streamflow from the U.S. Geological Survey (U.S.G.S.) river gauge network indicated most of the streamflows across Puerto Rico running above the normal range.

Water Supply: Lake levels at water supply reservoirs are in optimum conditions. The four representative wells along the southern slopes of Puerto Rico are indicating a downward trend in their levels.

Flood Conditions:

Non-Routine Hydrologic Products Issued:	Approximate number of Products for the month
Hydrologic Outlooks (SJUESFSJU)	0
Flood Watches (SJUFFASJU)	2
Flood Warnings (SJUFLWSJU)	5
Flash Flood Warnings (SJUFFWSJU)	6
Flash Flood Statements (SJUFFSSJU)	6
Urban/Small Stream Flood Advisories (SJUFLSSJU)	105

General Hydrology Information: As ENSO conditions are currently neutral, no impact on Caribbean rainfall is expected. Warm Sea Surface Temperatures (SSTs) across the north Caribbean may lead to above-average humidity and atmospheric instability, which tilts the odds towards a wetter wet season. With SSTs remaining near or slightly above average throughout the region, air temperatures are also expected to be warmer than average. Therefore, the flood potential is near or slightly above normal.



More Info: <http://rcc.cimh.edu.bb/long-range-forecasts/caricof-climate-outlooks/>